

(FILE 'HOME' ENTERED AT 11:13:13 ON 07 SEP 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 11:13:20 ON 07 SEP 2004

L1	217153 S PEROXIDASE
L2	67 S L1 AND (GEOTRICHUM (2N) CANDIDUM)
L3	39 DUP REM L2 (28 DUPLICATES REMOVED)
L4	13 S L3 AND DEC
L5	0 S L4 AND 7033

FILE 'STNGUIDE' ENTERED AT 11:15:02 ON 07 SEP 2004

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 11:23:32 ON 07 SEP 2004

L6	29 S L1 (10N) (GEOTRICHUM (2N) CANDIDUM)
L7	16 DUP REM L6 (13 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 11:25:20 ON 07 SEP 2004

L4 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1999:492033 CAPLUS  
DN 131:253167  
TI cDNA cloning and genetic analysis of a novel decolorizing enzyme,  
**peroxidase** gene dyp from **geotrichum candidum**  
**dec 1**  
AU Sugano, Yasushi; Sasaki, Katsuya; Shoda, Makoto  
CS Research Laboratory of Resources Utilization, Tokyo Institute of  
Technology, Yokohama, 226-8503, Japan  
SO Journal of Bioscience and Bioengineering (1999), 87(4), 411-417  
CODEN: JBBIF6; ISSN: 1389-1723  
PB Society for Bioscience and Bioengineering, Japan  
DT Journal  
LA English  
AB A novel decolorizing **peroxidase** gene (dyp) was cloned from a  
cDNA library of a newly isolated strain of fungus **Geotrichum**  
**candidum dec 1**. The open reading frame of 1494  
nucleotides which corresponds to dyp predicts a primary translation  
product of 498 amino acids, Mr 53,306. The deduced amino acid sequence of  
DyP does not contain the typical conserved motif which is characteristic  
of heme-containing **peroxidases** in the plant **peroxidase**  
superfamily. Comparison of the deduced amino acid sequence of DyP with  
that of a **peroxidase** from Polyporaceae sp. suggests that these  
proteins share highly homologous regions.